

FIG. 1

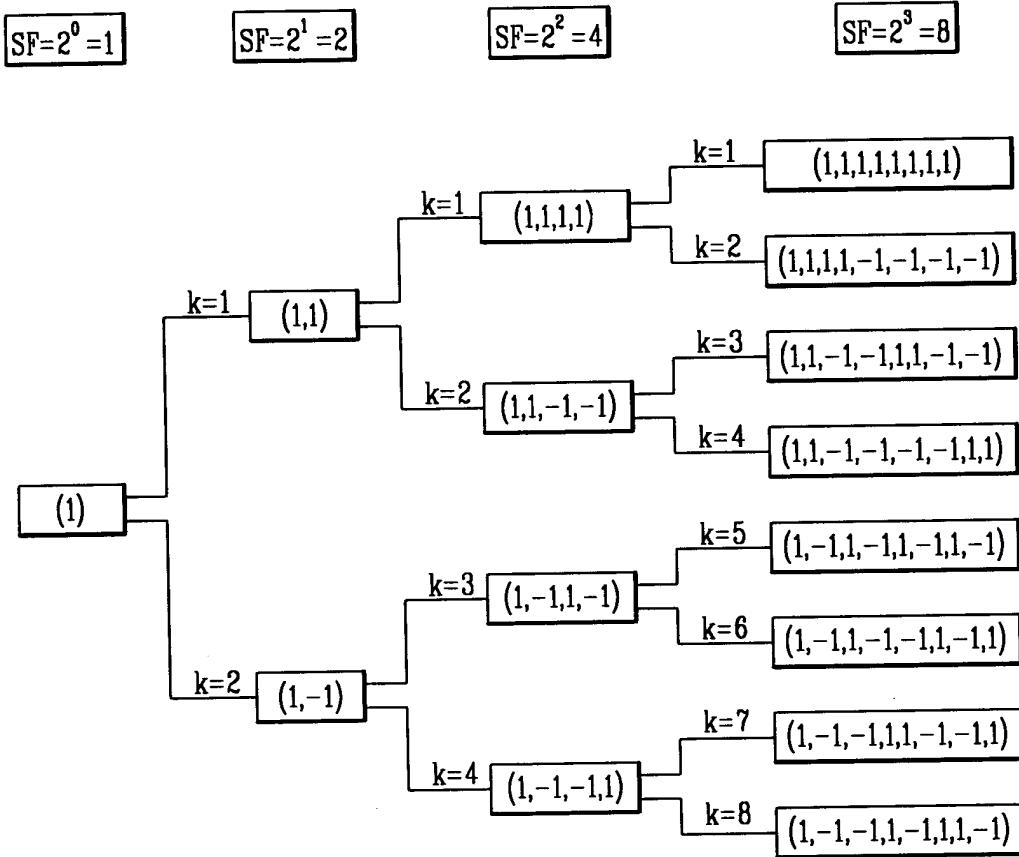


FIG. 2

$$H_{2n} = \begin{bmatrix} H_n & H_n \\ H_n & -H_n \end{bmatrix}, \quad n=1,2,3,\dots$$

$$H_1=[1], H_2=\begin{bmatrix} 1 & 1 \\ 1 & - \end{bmatrix}, \quad H_4=\begin{bmatrix} 1 & 1 & 1 & 1 \\ 1 & - & 1 & - \\ 1 & 1 & - & - \\ 1 & - & - & 1 \end{bmatrix}, \quad \dots$$

FIG. 3A

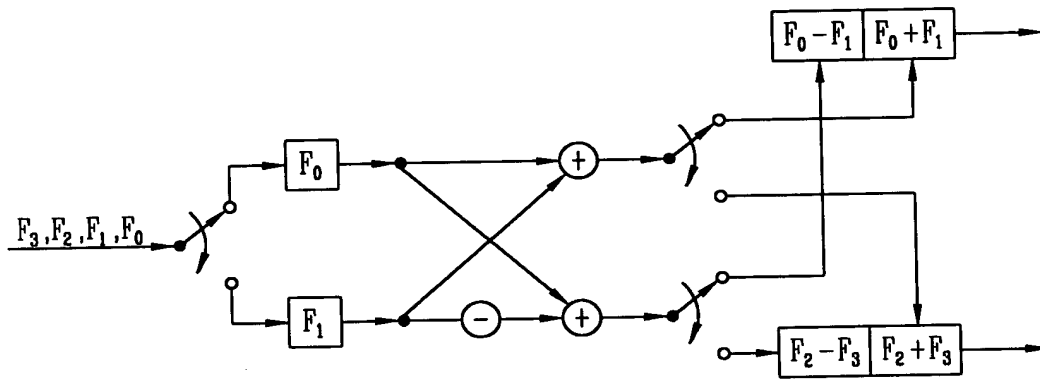


FIG. 3B

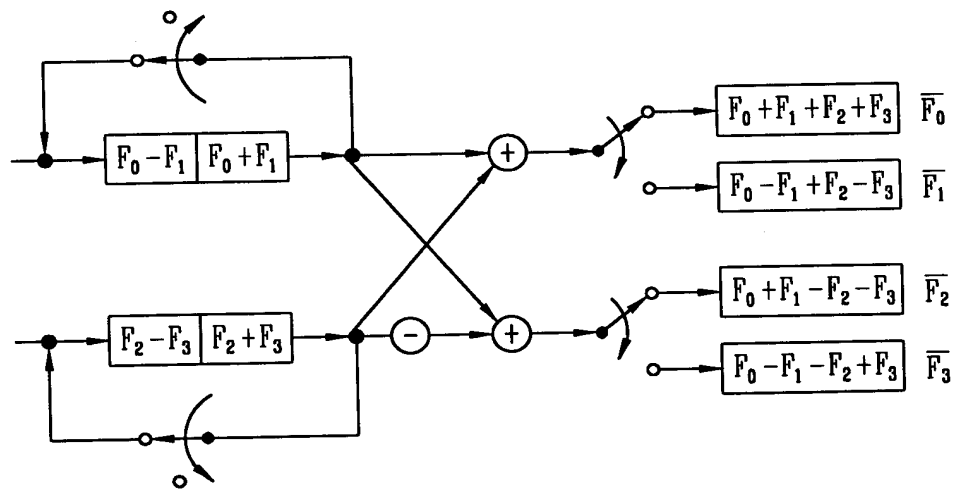


FIG. 4

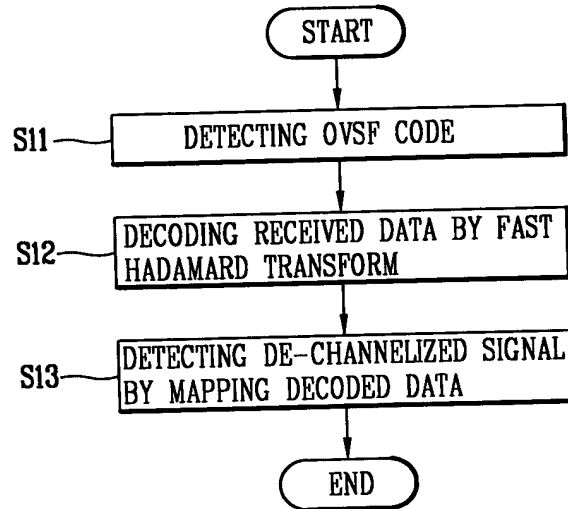


FIG. 5

SF	MAPPING
2	{1,2}
4	{1,3,2,4}
8	{1,5,3,7,2,6,4,8}
16	{1,9,5,13,3,11,7,15,2,10,6,14,4,8,16}
32	{1,17,9,25,5,21,13,29,3,19,11,27,7,23,15,31,2,18,10,26,6,22,14,30,4,20,12,28,8,24,16,32}
64	{1,33,17,49,9,41,25,57,5,37,21,53,13,45,29,61,3,35,19,51,11,43,27,59,7,39,23,55,15,47,31,63,2,34,18,50,10,42,26,58,6,38,22,54,14,46,30,62,4,36,20,52,12,44,28,60,8,40,24,56,16,48,32,64}
128	{1,65,33,97,17,81,49,113,9,73,41,105,25,89,57,121,5,69,37,101,21,85,53,117,13,77,45,109,29,93,61,125,3,67,35,99,19,83,51,115,11,75,43,107,27,91,59,123,7,71,39,103,23,87,55,119,15,79,47,111,31,95,63,127,2,66,34,98,18,82,50,114,10,74,42,106,26,90,58,122,6,70,38,102,22,86,54,118,14,78,46,110,30,94,62,126,4,68,36,100,20,84,52,116,12,76,44,108,28,92,60,124,8,72,40,104,24,88,56,120,16,80,48,112,32,96,64,128}
256	{1,129,65,193,33,161,97,225,17,145,81,209,49,177,113,241,9,137,73,201,41,169,105,233,25,153,89,217,57,185,121,249,5,133,69,197,37,165,101,229,21,149,85,213,53,181,117,245,13,141,77,205,45,173,109,237,29,157,93,221,61,189,125,253,3,131,67,195,35,163,99,227,19,147,83,211,51,179,115,243,11,139,75,203,43,171,107,235,27,155,91,219,59,187,123,251,7,135,71,199,39,167,103,231,23,151,87,215,55,183,119,247,15,143,79,207,47,175,111,239,31,159,95,223,63,191,127,255,2,130,66,194,34,162,98,226,18,146,82,210,50,178,114,242,10,138,74,202,42,170,106,234,26,154,90,218,58,186,122,250,6,134,70,198,38,166,102,230,22,150,86,214,54,182,118,246,14,142,78,206,46,174,110,238,30,158,94,222,62,190,126,254,4,132,68,196,36,164,100,228,20,148,84,212,52,180,116,244,12,140,76,204,44,172,108,236,28,156,92,220,60,188,124,252,8,136,72,200,40,168,104,232,24,152,88,216,56,184,120,248,16,144,80,208,48,176,112,240,32,160,96,224,64,192,128,256}